

**House Select Committee on
Strategic Transportation Planning and Long Term Funding Solutions**

VEHICLE TECHNOLOGY DAY

December 4, 2017

9 a.m. SHP Test Track and 1 p.m. Committee Meeting

9 a.m.

**State Highway Patrol Test Track
380 E. Tryon Rd.
Raleigh, NC**

MORNING AGENDA

A. Autonomous and Connected Vehicles: Demonstrations and Test Rides

Vehicles include:

- * Cadillac Level 2 Super Cruise Semi-Autonomous (Sign-Up Required – Limited Availability Due to Highway Use)
- * Jaguar
- * Tesla
- * Audi
- * EcoPRT - developed by NC State University
- * ELF - developed by Organic Transit
- * Mercedes-Benz E-class
- * Toyota Prius Prime
- * BMW 5 Series
- * Jeep Cherokee
- * State Highway Patrol Car
- * Dodge Charger
- * Land Rover
- * Chrysler Pacifica

1:00 p.m.
Room 544, LOB

AFTERNOON AGENDA

Chairs: Representative John Torbett

B. Automated and Connected Vehicles: Presentation on Morning Demonstration

1. Feasibility and Demonstration of Small Automated Vehicles as a Viable Transit Solution in North Carolina (EcoPRT)

- Seth Hollar, Ph.D., Assistant Professor
Electrical and Computer Engineering Department
North Carolina State University
- Marshall Brain, Director of Engineering Entrepreneurs Program,
Electrical and Computer Engineering Department
North Carolina State University
- NCSU Engineering Students:
Amit Nayak, Nikhil Patil, Joel Smith, Amrutha Arunachala, Suraj
Shanbhag, Tyler Currie, Tyler Orr, Siddhesh Gotad

C. Automated and Connected Vehicles: What You Need to Know

NOTE: A Panel Discussion will follow "Section C" for Q&A.

2. Review of NC Legislative Actions

- Howard Marsilio, Committee Counsel
Legislative Analysis Division

3. An Overview of Autonomous and Connected Vehicles and How These Technologies will Impact Transportation Services

- Paul Steinman, Transportation Group Director
HNTB

4. Emerging Technologies

- Harry Lightsey, III, Executive Director, Emerging Technologies Policy
GM

5. Toyota's Experience in Japan; A Federal Legislative Update, and a Safety Overview

- Ed Bradley, Program Manager for Safety Regulation
Toyota

6. The Evolution of Automated and Connected Vehicles and How the Military will Use this Technology

- Steven W. Dellenback, Ph.D., PMP
Vice President of Research and Development
Southwest Research Institute (SwRI)

7. The Future of Ride Sharing in the Age of Autonomous and Connected Vehicles

- Justin Erlich, Head of Policy, Autonomous Vehicles & Urban Aviation
Uber

8. Preparing North Carolina Roads for Autonomous and Connected Vehicles

- Kevin Lacy, PE, State Traffic Engineer
North Carolina Department of Transportation

9. What Should North Carolina do to Develop the Industry in North Carolina

- Chris Cunningham, Program Manager, Director of Highway Systems
Institute of Transportation Research and Education (ITRE)
North Carolina State University

D. Automated and Connected Vehicles: Panel Discussion for Questions

Participants include: Chris Cunningham, ITRE, NC State University
Thomas Chase, Ph.D., ITRE, NC State University
Kyle Snyder, ITRE, NC State University
Ed Bradley, Toyota
Dr. Steven Dellenback, SwRI
Nick Zabriskie, UBER
Paul Steinman, HNTB
Kevin Lacy, NCDOT